KABACHNIK, M.I.; GILYAROV, V.A.

Imides of phosphorus acids. Report No.6: Trialkyl-M-acylimidophosphates. Izv.AN SSSR.Otd.khim.nauk no.5:819-823 My '61. (MIRA 14:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphoric acid)

KABACHNIK, M.I.; GILYAROV, V.A.; POPOV, Ye.M.

Imides of phosphorus acid. Report 7: Amideimidolic tautomerism of amides of pentavalent phosphorus acids. Izv.AN SSSR, Otd.khim.nauk no.6:1022-1030 Je *61. (MIRA 14:6)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphosus acids) (Amides)

KABACHNIK, M.I.; TSVETKOV, Ye.N.

Dichlorides of p-vtyrylphosphinous and p-styrylphosphinic acids.

Izv.AN SSSR.otd.khim.nauk no.10:1896-1897 0 '61. (MIRA 14:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Phosphinous acid) (Phosphinic acid)

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8/062/61/000/011/008/012 B103/B147

AUTHORS:

Kabachnik, M. I., Medved', T. Ya., Polikarpov, Yu. M., and

Yudina, K. S.

TITLE:

Synthesis of diphenyl-vinyl phosphine oxide

PERIODICAL:

Otdeleniye khimicheskikh Akademiya nauk SSSR. Izvestiya.

nauk, no. 11, 1961, 2029 - 2031

TEXT: The authors synthesized: (a) Diphenyl-vinyl phosphine oxide (melting point 116 - 117°C) and (b) tetraphenyl-ethylene-diphosphine dioxide (melting point 269 - 270°C):

(a) $c_6^{H_5PC1_2} \xrightarrow{A1C1_3} (c_6^{H_5})_2^{PC1} \xrightarrow{CH_2 CH_2} (c_6^{H_5})_2^{POCH_2CH_2C1}$

 t° $(c_{6}H_{5})_{2}P(0)CH_{2}CH_{2}C1 \xrightarrow{HC1} (c_{6}H_{5})_{2}P(0)CH = CH_{2}.$

The first synthesis stage, the conversion of phenyl-dichloro phosphine Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

29521 S/062/61/000/011/008/012 B103/B147

Synthesis of diphenyl-vinyl phosphine...

to diphenyl-chloro phosphine was effected by catalytic disproportionation of the former in the presence of AlCl3 and constant distilling off of the PCl3 formed. The yield in diphenyl-chloro phosphine was 70%. This method is simple and gives easily reproducible results. Ditolyl-chloro-phosphine was obtained in the same manner (yield 65%). The second synthesis stage was achieved by passing a stream of ethylene oxide through diphenyl-chloro phosphine. The reactivity of the P-Cl bond is reduced owing to the introduction of two phenyl groups into the atom of the trivalent phosphorus PCl3 showed the most vigorous reaction with ethylene oxide; whereas phenyl-dichloro phosphine was somewhat less effective. The reaction with diphenyl-chloro phosphine is exothermic. It requires, however, heating at 60°C for 1 hr until it is completed. The third synthesis stage, the isomerization of the β -chloroethyl ester of diphenyl-phosphinous acid to diphenyl-β-chloroethyl phosphine oxide, does not take place smoothly. Different quantities of both the final product mentioned and b): (C6H5)2P(0)CH2CH2P(0)(C6H5)2 are formed depending on the pressure used (atmospheric pressure or vacuum). Ethylene diphosphine derivatives were produced previously (M. I. Kabachnik, Izv. AN SSSR, Otd. khim. n. 1947. 631); the same holds for dioxides (M. I. Kabachnik, T. Ya. Medved', Yu. M. Card 2/3

KABACHNIK, M.I 5/190/61/003/007/021/021 25277 B101/B230 15.8050 Tsetlin, B. L., Medved', T. Ya., Chikishev, Yu. G., Poli-karpov. Yu. M., Rafikov, S. R., Kabachnik, M. I. AUTHORS: Radiation polymerization of tertiary monovinylphonphine oxi-TITLE: Vysokomolekulyarnyye soyedineniya. v. 3. no. 7. 1961. PERIODICAL: 1117 - 1118 TEXT: This letter to the editor reports the synthesis of polymers on the basis of tertiary monovinylphosphine cyides (Ref. 1: M. I. Kabachnik, Ta. Medved', Yu. M. Polikarpov, Dokl. AN SSSR. 127, 849, 1960; M. I. Kabachnik, Chang Jung-yu. Ye. N. Tsvetkov, Dokl. AN SSSR. 135, 601, 1960) Kabachnik, Chang Jung-yu. Ye. N. Tsvetkov, Dokl. AN SSSR. 135, 601, 1960) to be of great importance due to the high thermal and chemical stability of phosphine oxides. Experiments to polymerize such montmers by applying initiators of the radical polymerization (benzoyl percende, aucisobutyric initialities of the radical polymerization (benzoy) percenter, accisomely acid dinitrile) failed to produce natiofactory results. Oxides of the tertiary dually: and dimethally phosphines were, in the presence of Card 1/3

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\$/190/61/003/001/021/021 B101/B230 Radiation polymerization of ... this type of int isters, either not polymerized at all, or their polymerization priceeded at an extremely low rate with very poor yield (Ref. 2, see below). Authors conducted experiments to intrinte polymerization of diethylvinylphosphine exide (I) and dipherylvinylphosphine exide (II) by radiation. As source of radiation an X-ray irradiation apparatus was used. Samples were exposed to irradiation in molten state in vacuum. In irradiation of (I) the lose rate was 4.5.10 6 ev/ml.sec at an irradiation time of 30 hr at 70°C. As a product, a solid polymer was obtained having a molecular weight of 153,000 (the monomer was distilled off under vacuum). Degree of conversion amounted to ~80 %, radiation yield G of the polymerization was ~80 molecules of the monomer per 100 ev. The polynor is well actuble in water, ethanol, and benzene. In irradiation of (II), the dose rate was 4-1015 ev/mf.sec for a time of 50 hr at 1300C. A polymer was obtained having a molecular weight of ~30,000; degree of conversion ~60 %, radiation yield ~550 molecules per 100 ev. The polymer is soluble in ethanol and benzene when heated, and may be precipitated from alcohol by adding a small quantity of water. Vitrification temperature of the Card 2/3

POPOV, Ye.M.; KABACHNIK, M.I.; MAYANTS, L.S.

Vibration spectra of organophosphorus compounds. Usp.khim. 30 nd.7:846-876 Jl '61. (MIRA 14:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphorus organic compounds—Spectra)

Esters of cyclopentadienyl-, l-indenyl-, and 9-fluorophenylphosphinous acids. Zhur.ob.khim. 30 no.10:3227-3233 0 161. (MIRA 14:4)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphinous acid)

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KABACHNIK, M.I.; MASTRYUKOVA, T.A.; BALUYEVA, G.A.; KUGUCHEVA, Ye.Ye.;
Shipov, A.E.; MELENT YEVA, T.A.

Application of the Hammett equation to dithio phosphorus acids, Zhur. ob. khim. 31 no.1:140-145 Ja 161. (MIRA.14:1)

1. Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR. (Phosphorus acids)

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8/079/61/031/002/007/019 B118/B208

5.3630

Mastryukova, T. A., Shipov, A. E., and Kabachnik, M. I.

AUTHORS:

Method of synthesizing dialkyl dithiophosphinic acids

TITLE:

PERIODICAL:

Zhurnal obshchey khimii, v. 31, no. 2, 1961, 507-512

TEXT: In view of Refs. 1-3, the authors synthesized dialkyl dithiophosphinic acids by reaction of dialkyl thiophosphites with alkyl magnesium halides, connected with sulfur addition;

 $(PO)_2P(S)H \xrightarrow{R^1MgX} (R^1_2PSMgX) \xrightarrow{S} (R^1_2PSSMgX) \xrightarrow{H+} R^1_2PSSH (Ref. 4).$

The reactions of diethyl thiophosphite with butyl magnesium bromide, with sulfur addition, gave, however, tetrabutyl dithiodiphosphyl $(c_4H_9)_2P(s)P(s)(c_4H_9)_2$ which also results from the sodium salt of the phosphite. Potassium dibutyl thiophosphite reacts with the Grignard reagent to give a mixture of tetraalkyl dithiodiphosphyl and dialkyl dithiophosphinic acid in low yield. The authors devised a method of synthesizing dialkyl di-

Card 1/2

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

B/079/61/031/002/019/019 B118/B208

15.8114

AUTHORS:

Kabachnik, M. I. and Tsvetkov, Ye. N.

TITLE:

Polycondensation according to A. Ye. Arbuzov's reaction

PERIODICAL:

Zhurnal obshchey khimii, v. 31, no. 2, 1961, 684-685

TEXT: The regrouping of acid esters of trivalent phosphorus: in compounds of pentavalent phosphorus by reaction with halogen derivatives according to Arbuzov (Ref. 1) can be used for the synthesis of organophosphorus polymers. For this purpose, the functions of the acid ester of trivalent phosphorus, and of the alkyl halide, have to be combined in the monomer molecule. The polycondensation process may, thus, be expressed by the following equation:

 $-R-P-OR' \longrightarrow (n-1)R'Hal + Hal$

Such a reaction was first observed by P. A. Rossiyskaya in the isomerization of tri-β-chloro-ethyl phosphite (Ref. 2); but, at that time, the polymeric organophosphorus compounds were regarded as by-products, and their synthesis

Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

Polycondensation according ...

S/079/61/031/002/019/019 B118/B20B

 $C_{1}C_{0}H_{4}PCl_{2} \xrightarrow{---} [n-ClCH_{2}C_{0}H_{4}PCl_{4}] \xrightarrow{---} [n-ClCH_{2}C_{0}H_{4}PCl_{2}] \xrightarrow{---} [n-ClCH_{2}C_{0}H_{4}PCl_{4}] \xrightarrow{---} [n-ClCH_{2}C_{0}H_{4}PCl_{4}] \xrightarrow{---} [n-ClCH_{2}C_{0}H_{4}PCl_{4}]$

-RCI CI -CH₂C₆H₄P - CH₂C₆H₄P(OR)₃

p-Tolyl-dichloro-phosphine in chloro benzene is converted to the corresponding tetrachloride by reaction with chlorine which gave, on further chlorination (in ultraviolet light at $80-90^{\circ}$ C), and subsequent reduction with methyl dichloro phosphite (Ref. 3), p-chloro-methyl-phenyl-dichloro phosphine (I). This compound (I) was converted to the di-(β -chloro-ethyl) ester of p-chloro-methyl-phenyl phosphinous acid (II, R = CH₂CH₃Cl) by reaction with ethylene oxide, when heated (90-120°C) for 20 hr in vacuo, the resultant

Card 2/3

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GODOVIKOV, N.N.; KABACHNIK, M.I.

Substituting sulfur for oxygen in organophosphorus compounds. Zhur. ob.khim. 31 no.5:1628-1631 My '61. (MIRA 14:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphorus organic compounds)

KABACHNIK, M.I.; IOFFE, S.T.; POPOV, Ye.M.; VATSURO, K.V.

Trans-enclization. Part 1: Effect of solvents on the enclization of trans-fixed keto encls. Zhur.ob.khim. 31 no.7:2122-2131 J1 '61.

1. Institut elementoorganicheskikh soyedineniy AN SBSR. (Ketone) (Isomerism)

KABACHNIK, M.I.; IOFFE, S.T.; POPOV, Ye.M.; VATSURO, K.V.

The Self-Self of History (Capitally - 1954) apage.

Transenolization. Part 2: Effect of solvents on the transenolization of & -alkylacetoacetic esters. Zhur.ob.khim. 31 no.8:2682-2692 Ag '61. (MIRA 14:8)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Acetoacetic acid) (Isomerization)

NENITSESKU, Kostina [Nenitescu, Costin D.], prof. akademik;

BYRLEDYANU, L.[Birladoemi, L., translator]; KABACHNIK, M.I.,

akademik, red.; CAZIYEVA, G.B., red.; ICTAFENKOVA, Ye.S.,
tekhn. red.

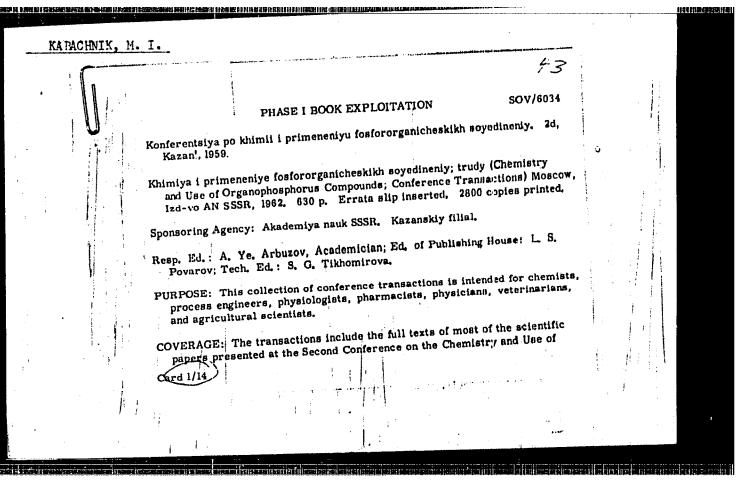
1823 [1]

[Organic chemistry]Organicheskaia khimiia. Moskva, Ind-vo inostr. lit-ry. Vol.1. 1962. 863 p. Translated from the Rumanian.

1. Prezident otdela khimicheskikh nauk Akademii Rumynakov narodnov respubliki i Bukharestskiy politekhnicheskiy institut (for Nenitsesku). (Chemistry, Organic)

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KABACHNIK, M.I.		4	jnya mi
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Organ The r cles; artic the s organ Short belov TABLE	OF CONTENTS: [Abridged]: ction (Academician A. Ye. Arbuzov) TRANSACTIONS OF THE CHEMISTRY SECTION Ye. L. [NII plastmass (Scientific Research Institute of Plastics,). Some Prospects for the Industrial Use of Organophosphorus ands	
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Chemistry and the Use of Organophosphorus (Cont.)

SOV/6034

Andreyeva, M. A., I. A. Gribova, M. I. Kabachnik, G. S. Kolesnikov, V. V. Korshak, T. Ya. Medved', Yu. M. Polikarpov, Ye. F. Rodionova, and L. S. Fedorova [Institute of Organoelemental Compounds]. Some Methods of Synthesis of New Organophosphorus Monomers and Polymers

This study attempts to develop new methods of synthesis of organophosphorus monomers and polymers for obtaining high-molecular fireproof materials. The authors synthesized vinyl compounds of pentavalent phosphorus and studied their properties, as well as those of the polymers obtained.

Moshkin, P. A., Ye. L. Gefter, and I. K. Rubtsova [Scientific Research Institute of Plastics]. Study of the Synthesis and Uses of Some Organophosphorus Compounds in the Plastics Industry

279

Industrial methods for the preparation of esters of phosphoric acid and for testing qualities of these acids as plasticizers have been developed, along with methods for obtaining phosphorus-containing monomers for use in polymerization, copolymerization, and polycondensation reactions. Polyesters based on dichlorides of

Card 6/14

KABACHNIK, M.I., BALUYEVA, G.A.

Basicity of phosphines and the Hammett equation. Izv.AN SSSR.Otd.khim.nauk no.3:536-537 Mr '62. (MIRA 15:3)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphine) (Hammett equation)

S/062/62/000/009/006/009 B119/B186

AUTHORS:

Kabachnik, M. I., Medved', T. Ya., Polikarpov, Yu. M., and

Yudina, K. S.

TITLE:

Reactions of vinyl diphenyl phosphine oxide

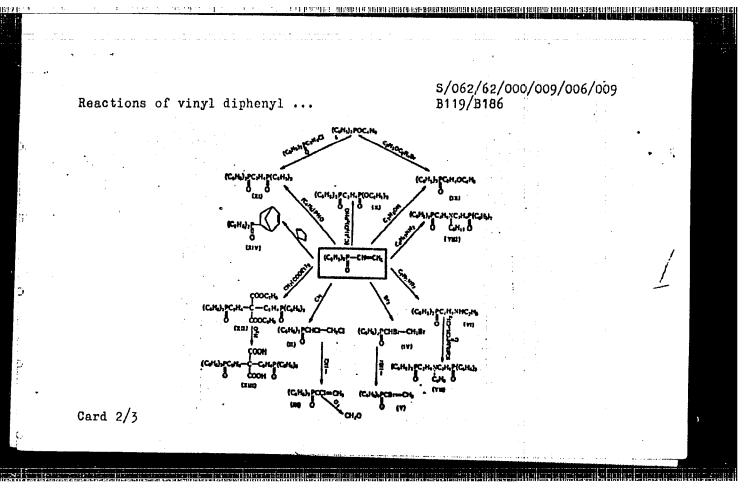
PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdeleniye khimicheskikh

nauk, no. 9, 1962, 1584 - 1589

TEXT: Thirteen compounds were obtained from vinyl diphenyl phosphine oxide by reactions according to the following scheme:

Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"



5/204/62/002/004/019/019 4185h E075/E436

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-17:

Kabachnik, M.I., Gefter, Ye.L., Moshkin, P.A.,

Medved', T.Ya. AUTHORS:

Phosphororganic monomers. Review paper

PERIODICAL: Neftekhimiya, v.2, no.4, 1962, 639-651 TITLE:

The area of phosphororganic monomers reviewed is that of β-chlorethyl and vinyl derivatives of phosphorous which is thought to have a large potential for the production of high melting, non-inflammable polymers. An important monomer in this area is dichloroanhydride of vinylphosphorous acid obtainable in four steps Trom scriptene oxide and folg. (I) gives a product, which is of $3C_2H_4O + PCl_3 \longrightarrow P(OCH_2-CH_2-Cl)_3$ (I) gives a product, which is of value in itself (fuel additive, plasticizer) and which can be important to give ClCH-Chap(OCHaCHaCl) and discovered by from ethylene oxide and PCl3. isomerized to give ClCH2CH2P(OCH2CH2Cl)2 (II) as discovered by

The isomerization of (I) is more or less difficult depending on the groups attached to P. For example, it proceeds easily at room temperature for (R2N) 2POC 2H4Cl, but long heating at 160 to 170°C is necessary for the isomerization M.I.Kabachnik. Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

Phosphororganic monomers

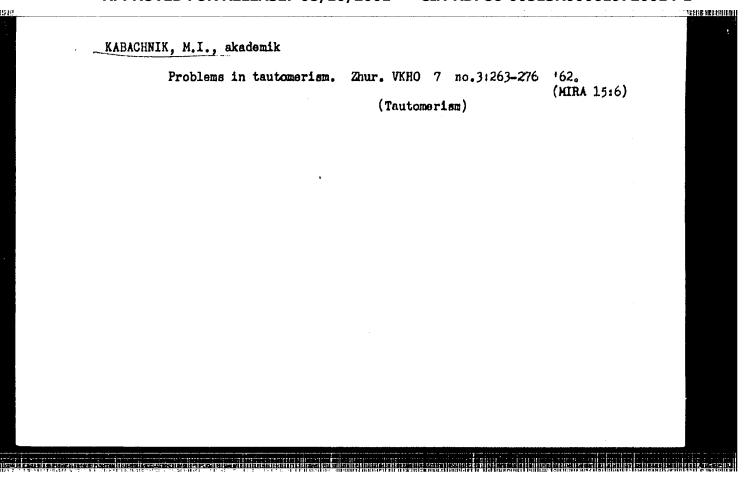
S/204/62/002/004/019/019 E075/E436

until recently the only available method for their preparation. The phosphines polymerize easily by ionic or radical mechanism. At the present time the polymerization of vinyldiethyl and vinyldiphenylphosphines is being investigated under the action of X-ray and chemical initiators. In general, the vinyl-phosphorous compounds can polymerize, copolymerize and, depending on their specific structure, can condense and form polyesters. Thus di β,β' -chloroethyl ester of vinylphosphorous acid undergoes polycondensation at 210 to 240°C and polymerizes in the presence of initiators forming a three dimensional polymer. There are 44 references.

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ASSOCIATION: Institut elementoorganicheskikh soedineniy AN SSSR (Institute of Elemental-organic Compounds AS USSR)

Card 3/3



APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

S/074/62/031/003/001/002 B117/B101

AUTHORS:

Gefter, Ye. L., and Kabachnik, M. Iv

TITLE:

Organophosphorus compounds derived from cyclic oxides

PERIODICAL:

Uspekhi khimii, v. 31, no. 3, 1962, 285-321

TEXT: This is a survey of the progress achieved in the chemistry of organophosphorus compounds. It deals with research work in which reactions of cyclic oxides with some phosphoric compounds, properties, conversions, and possibilities of application of resulting reaction products were studied. Summarizing, it is stated that the addition of phosphoric compounds to α -oxides provides a simple, easy and cheap method for the synthesis of various organophosphorus compounds. Thus compounds containing β -alkyl halide- and hydroxyl groups, α - and β -unsaturated radicals at the phosphorus atom, and active epoxy- and ethylenimine rings, can be prepared quite easily and with high yields. A large number of such organophosphorus compounds are being used in national economy. Probably, their field of application will further increase since there are still wide possibilities of synthetizing new compounds. Mention is made of:

Card 1/2

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KABACHNIK, M.I.; MASTRYUKOVA, T.A.; MELENT'YEVA, T.A.

Conjugation in the systems having a tetrahedral atom.
acids. Zhur. ob. khim. 32 no.1:267-272 Ja 162.

(Phosphinic acid)

Diarylphosphinic (MIRA 15:2)

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KABACHNIK, M.I.; GILYAROV, V.A.; POPOV, Ye.M.

Tautomerism of phosphamidines. Zhur.ob.khim. 32 no.5:1598-1604, My 162. (MIRA 15:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphorus acids) (Amidines) (Tautomerism)

8/079/62/032/010/005/008 D204/D307

AUTHORS:

Kabachnik, M.I., Tsvetkov, Ye.N., and Chang, Jung-Yd

TITLE:

Reactivity of the vinyl group and the direction of addition in the reactions of secondary amines with the

vinyl compounds of tri- and pentavalent phosphorus

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 10, 1962;

3340 - 3350

TEXT: The addition reactions of piperidine and diethylamine to $CH_2 = CH - P(C_4H_9)_2$ (I), $CH_2 = CH - P(OC_4H_9)_2$ (II), $CH_2 = CH - P(O)$. .H. OC_4H_9 (III), $CH_2 = CH - P(0)(C_4H_9)_2$. (IV) and $CH_2 = CH - P(0).CH_3$. .C4H9 (VI) were studied in an effort to clarify the influence of the P-containing groups on the double bond of the vinyl group. The readiness with which the vinyl compounds reacted with the amines was in the order III > VI > IV > II > I; thus III reacted exothermically when mixed with pyridine in the presence of hydroquinone, whilst I required heating to 145 - 160°C in a sealed tube, for 19 hrs., in Card 1/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

8/079/62/032/010/005/008

Reactivity of the vinyl group and ...

the presence of a catalyst. It was shown that the addition followed Markovnikov's rule in all cases, i.e. the N-atom of piperidine bonded on to the β -carbon of the vinyl group. In pentavalent P compounds the observed direction of addition is ascribed to R_2NH+CH_2 = CH = P = 0 \rightarrow $R_2NCH_2CH_2 - P = 0$, or the formation of a cyclic

transition complex:

For the β -addition of secondary amines to trivalent P compounds, the following possibilities are presented: (a) polarization of the C = C bond by a weak inductive effect directed towards the phosphorus: $CH_2 = \overrightarrow{CH} \rightarrow \overrightarrow{F} <$, (b) in the case of I, which only reacts in the presence of piperidine hydrochloride, the formation of a salt, Card 2/3

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

5/079/62/032/010/006/008 D204/D307

AUTHORS:

Kabachnik, M.I., Chang, Jung-Yu, and Tsvetkov, Ye.N.

TITLE:

The esters of unsaturated phosphinous acids

PERIODICAL:

Zhurnal obshchey khimii, v. 32, no. 10, 1962,

3351 - 3360

TEXT: The above class of compounds was studied in view of its potential applications to synthesis. Esters of the vinyl-, ethinyl-, allyl-, p-styryl- and of vinyl phenyl phosphinous acids RP(OR')2,

were prepared by the reaction of Grignard reagents RMgX with ClP (OR'), at -60°C, in the presence of pyridine. The butyl esters of

vinyl, -methyl vinyl, - ethyl vinyl, - butyl vinyl, - allyl vinyl, - and diallyl phosphinic acids were prepared by the Arbuzov rearrangement of the corresponding butyl phosphinites, using high boiling alkyl halides. The reactions were carried out in toluene, at atmospheric pressure. Vinyl, allyl, and vinyl phenyl - phosphinous esters were readily oxidized, with activated MnO₂, to CH₂ = CHP(0)

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perated by the hydrolysis of its ester, owing to polymerization.

 $CH_2 = CHP(OBu)_2$ reacted with Cl_2 to give $CH_2 =$ -OBu and ente-

red iAPPROVEGFOR RELEASE: 108/110/2001th CMA-RDP86:00513R0006D9720014-1
The corresponding monobutyl ester polymerized readily on heating (100°C, 5 hrs.) and in the presence of initiators.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy Akademii nauk SSSR (Institute of Elemental Organic Compounds of the Academy of Sciences, USSR)

SUBMITTED:

July 28, 1961

Card 2/2

MASTRYUKOVA, T.A.; SHIPOV, A.E.; KABACHNIK, M.I.

Dimethylphosphinothicic and dimethylphosphinodithicic acids and their derivatives. Zhur.ob.khim. 32 no.11:3579-3582

N '62.

(Phosphinothicic acid) (Phosphinodithoic acid)

(Phosphinothicic acid) (Phosphinodithoic acid)

KABACHNIK, M.I., akademik; TSVETKOV, Ye.N.

"Facudoally!" rearrangements of tri-(chloromethyl)-phosphine.
Dokl. AN SSSR 143 no.3:592-595 Mr '62. (MIRA 15:3)

1. Institut elementocrganicheskikh soyedineniy AN SSSR.

(Phosphine)(Radicals(Chemistry))

Crganophosphorus monomers. Neftekhimia 2 no.4:639-651 J1-Ag 162.

(MIRA 15:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Phosphorus organic compounds)

IOFFE, S.T.; POPOV, Ye.M.; VATSURO, K.V.; TULIKOVA, Ye.K.; KARACHNIK, M.I., akademik

"是是我的自己的时候我们是我们的是我们的是我们的是不是一个的,我们是一个,我们是一个,我们是一个的时候,我们们的我们的一个,我们也没有一个的时候,我们的我们们的一个的

Keto cis-trans-enol equilibrium of 3-alkylacetylacetones. Dokl. AN SSSR 144 no.4:802-805 Je 162. (MIRA 15:5)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Acetone) (Isomerization)

KOLESNIKOV, C.S.; RODIONOVA, Ye.F.; FEDCROVA, L.S.; MEDVED', T.Ya.;
KABAGINIK, M.I.

Carbochain polymers and copolymers. Part 41: Synthesis,
polymerization, and copolymerisation of vinylphosphinic
amides. Vysokom.soed. 4 no.9:1385-1389 S '62. (MIRA 15:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Phosphinic amide)
(Polymerization)

KABACHNIK, M.I.; TSVETKOV, Ye.N.; CHZHAN ZHUN-YUY [Chang Jung-yü]

Orientation of the addition and the reactivity of a vinyl group in the reactions of secondary amines with vinyl compounds of tri- and pentavalent phosphorus. Zhur.ob.khim.

32 no.10:3340-3350 0 '62.

(Phosphorus organic empounds)

(Amines)

(Vinyl compounds)

KABACHNIK, M.I., GEFTER, YE.L., MOSHKIN, P.A.

Phosphor organic monomers.

Report submitted for the 12th Conference on high molecular weight, cOmpounds devoted to monomers, Baku, 3-7 April 62

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MEDVED', T.YA., KARACHNIK, M.I., MOSHKIN, P.A., VARSHAVSKIY, S.L. KOFMAN, L.P., GEFTER, YE.L., TKACHENKO, G.V., DANILEVICH, A.A.

Industrial method of synthesis of di-B,B chlor-ethyl of vinylphosphinic acid from ethylene oxide and phosphorus trichloride.

Report submitted for the 12th Conference on high molecular weight compounds devoted to monomers, Baku, 3-7 April 62

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KABACHNIK, M.I.; MEDVED', T.Ya.; POLIKARPOV, Yu.M.; YUDINA, K.S.

Reactions of vinyldiphenylophosphine oxide. Izv.AN SSSR.Otd.khim. nauk no.9:1584-1589 S '62. (MIRA 15:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphine oxide)

TO THE PROPERTY OF THE PROPERT

KABACHNIK, M.I.; GILYAKOV, V.A.; CHZHAN CHZHEN-DE[Chand Chang-tieh]; MATROSOV, Ye.I.

Problem of tautomerism of N-acylamidophosphates and N-acylamidophosphinates. Izv.AN SSSR.Otd.khim.nauk no.9:1589-1599 S 162. (MIRA 15:10)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphoramidic acid) (Phosphinamidic acid) (Tautomerism)

KABACHNIK, M.I.; MRDVED', T.Ya.

Synthesis of methylenediphosphine oxide. Izv. AN SSSR. Otd.khim. nauk no.11:2103-2104 N 62. (MIRA 15:12)

1. Institut elementoorganicheskikh soyedineniya AN SSSR. (Miphosphine)

SHUSTOROVICH, Yevgeniy Meyerovich; KABACHNIK, M.I., akademik, otv. red.; BIYUMENFEL'D, L.A., doktor khim. neuk, otv. red.; KORDYUKOVA, S.A., red.; TARASENKO, V.M., red.izd-va; SUSHKOVA, L.A., tekhn. red.

[Nature of chemical bonds] Priroda khimicheskoi sviazi.

Moskva, Izd-vo AN SSSR, 1963. 134 p. (MIRA 16:12)

(Chemical bonds)

TO BE THE STREET OF THE PROPERTY OF THE PROPER

KOLESNIKOV, G.S.; RODIONOVA, Ye.F.; FEDOROVA, L.S.; MEDVED', T.Ya.; KABACHNIK, M.I.

Carbochain polymers and copolymers. Part 43: Synthesis, polymerization, and copolymerization of aromatic esters of vinylphosphinic and d-chlorovinylphosphinic acids. Vysokom. soed. 5 no.1:32-38 Ja 163. (MIRA 16:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphinic acid) (Polymerization)

KABACHNIK, M.I.; IOFFE, S.T.

Effect of steric factors on keto-cis-trans-enol equilibrium of ~-oyoloalkylacetoacetic esters. Izv.AN SSSR.Otd.khim, nauk no.21339-343 F '63.

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

(Acetoacetic acid) (Tautomerism)

MEDVED', T.Ya.; FRUNZE, T.M.; KHU CHIN-MEY; KURASHEV, V.V.; KORSHAK, V.V.; KABACHNIK, M.I.

Organophosphorus polyamides based on methyldi-(w-aminophenyl)phosphine oxide. Vysokom.soed. 5 no.9:1309-1314 S 163. (MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

"APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1 The state of the s

KABACHNIK, M.I.; TSVETKOV, Ye.N.

Lower dialkyl phosphinous acids (exides of secondary phosphines) and some of their properties. Izv. AN SSSR. Ser.khim. no.7:1227-1232 Jl 163.

1. Institut elementoorganicheskikh soyedineniy AK SSSR. (Phosphinous acid)

APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

MASTRYUKOVA, T.A.; SAKHAROVA, T.B.; KABACHNIK, M.I.

Thin-layer chromatography of organothiophosphorus compounds. Izv. AN SSSR. Ser. khim. no.12:2211-2213 D 163.

(MIRA 17:1)

1. Institut elementoorganicheskikh soyedineniy AN SSSR.

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KABACINIK, M.I. [Kabachnik, M.I.]; GHEFTER, E.L.; MCSKIN, F.A. [Moshkin,]; DDVD, T.I. [Modved], T.Ya.]

Organophosphoric monomers. Analele chimie 18 no.3:62-76 Jl-S '63.

KABACHNIK, M., akademik

Chemistry of life and chemistry of death. Tekh.mol. 31 no.422

(MIRA 16:6)

'63. (Phosphorous organic compounds)

ACCESSION NR: AT4033994

8/0000/63/000/000/0117/0122

AUTHOR: Korshak, V.V.; Gribova, I.A.; Andreyeva, M.A.; Kabachnik, M.I.; Mcdved¹, T. Ya.

TITLE: Polymers containing phosphorus. XXIX. Heterocyclic polyesters of vinly-phosphinic acid and some glycols

SOURCE: Geterotsepny*ye vy*sokomolekulyarny*ye soyedineniya (Heterochain macromolecular compounds); sbornik statey. Moscow, Izd-vo "Nauka," 1963, 117-122

TOPIC TAGS: vinylphosphinic acid, ethylene glycol, propylene glycol, diethylene glycol, trimethylene glycol, butylene glycol, polymer, cyclic polyester, polymerization, polymerization catalyst, metallic sodium, linear polymerization, radical polymerization, benzoyl peroxide, tert.-butyl peroxide, tert.-butyl hydroperoxide

ABSTRACT: The authors synthesized the cyclic esters of vinylphosphinic acid (I) and ethylene glycol (II), 1,2-propylene glycol (III), trimethylene glycol (IV), 1,4-butylene glycol (V) or diethylene glycol (VI) and determined some of their physicochemical properties (see Table 1 in the Enclosure). Those esters were then polymerized linearly in the presence of water (3% by weight, 140C, from 15 hours for III to 83 hours for VI).

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ACCESSION NR: AT4033994

Yields ranged from 23.2% for VI to 88.6% for II, indicaring that penta-cyclic esters are the most suitable. Structural modification of the synthesized polyesters was then attempted by the use of radical polymerization catalysts (benzoyl peroxide, tert. -butyl peroxide, tert.-butyl hydroperoxide and metallic Na; 0.5 to 3.0% by weight, 55-90C, peroxide, tert.-butyl hydroperoxide and metallic Na; 0.5 to 3.0% by weight, 55-90C, 10-51 hours). The polymers obtained were solids or similar to factice rubber with softening temperatures of 180-250C. "G. M. Popova and G. F. Dmitriyeva took part in the experimental part of the work." Orig. art. has: 2 graphs, 4 tables and 1 chemical equation equation.

ASSOCIATION: Institut elementoorganicheskikh soyedineniy AN SSSR (Institute of Metalloorganic Compounds AN SSSR)

SUBMITTED: 31Jul62

DATE ACQ: 30Apr64

ENCL: 01

SUB CODE: OC

NO REF SOV: 005

OTHER: 000

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APPROVED FOR RELEASE: 08/10/2001 CIA-RDP86-00513R000619720014-1"

ACCESSION NR: A	T4033994	 - Сус	lic est	ers o	f vinylp	hospł	inic a	cid	:		RE: 01		:
TABLE 1		.	MRD		C,% H,		н, 9	6	P,%				
Chemical formula	B.P., °C/mm	20 ⁿ D	20 d ₄	Found	Calcu- lated	Found	Cal- cula- ted	Found	Calcu- lated	Found	Calcu- lated	Yield %	
I. CHCHP OCH.	127/4	1,4701	1,3068	28,63	28,87	35,5 35,5	1 . 1	II '''	1.	20,6 20,6	23,1	65	
П. Си-си Сосисия	113114/3	1,4500	1,2071	33,59	33,49	40,6 40,7	40,6	"-	. .	20,4 20,5	20,9	\$9	•
III. CH, CH COCH, CH,	129—130/2	1,477	i ,2570	33,32	23,49	40,6 40,5	1	""	1	20,4 20,4	20,9	53	
IV, CH, CH COCH, CH,	120/3	1,479	2 1,2044	38,19	38,11	44,6	l l	''	1 .			47	
O OCHOU	т. жиц. 0112—116/2	-	-	-	-	40,4	40,4	6,2	6,8	17.5 17,4	17,4	10	
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KABACHNIK, M. I.; MASTRTUKOVA, T. A.; SHIPOV, A. E.

Reaction of phosphite amides and phosphinite amides with acid anhydrides. Zhur. ob. khim. 33 no.1:320-321 '63, (MIRA 16:1)

(Phosphinous amide) (Anhydrides)

KABACHNIK, M.I.; MASTRYUKOVA, T.A.; MELENT'YEVA, T.A.

Conjugation phenomenon in the systems with a tetrahedric atom. Part 2: Vinylphosphinic acids. Zhur.ob.khim. 33 no.2: 382-388 F 163. (MIRA 16:2)

1. Institut elementoorganicheskikh soyedineniy AN SSSR. (Phosphinic acid) (Conjugation (Chemistry)) (Vinyl compounds)

KABACHNIK, M.I.; GODOVIKOV, N.N. Synthesis of some physiologically active organophosphorus compounds. Part 2: Preparation of O-ethyl-S-[β-alkylmercaptoethyl] methylthiophosphinate, O-ethyl-S-[β-phenylmercaptoethyl]

methylthiophosphinate and their methylsulfomethylates. Zhur.ob.khim. (MIRA 16:7) 33 no.6:1941-1945 Je '63.

1. Institut elementoorganicheskikh sovedineniy AN SSSR. (Phosphorus organic compounds)

CIA-RDP86-00513R000619720014-1" APPROVED FOR RELEASE: 08/10/2001

MASTRYUKOVA, T.A.; SHEYNKER, Yu.N.; KUZNETSOVA I.K.; PERESLENI, Ye.M.; SAKHAROVA, T.B.; KABACHNIK, M.I.

Hammett equation in the theory of tautomeric equilibrium. Part 2: Tautomerism of A -arylsulfaminopyridines.Potentinpatricustudy. Zhur.obakhin. 33 no.10:3328-3335 0 163.

Hammett equation in the theory of tautomeric equilibrium.

Part 2: Tautomerism of A. -arylsulfaminopyridines. Spectrophotometric study.

3336-3342 (MIRA 16:11)

1. Institut elementoorganicheskikh soyedineniy AN SSSE i Institut khimii prirodnykh soyedineniy AN SSSR.

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GODOVIKOV, N.N.; GODYNA, Ye.I.; KABACHNIK, M.I., akademik; MIKHEL'SON, M.Ye.; ROZENGART, Ye.V.; YAKOVLEV, V.A.

Anticholinesterase properties of some O-ethyl-S-alkylmethyl thiophosphinates. Dokl. AN SSSR 151 no.5:1104-1107 Ag '63. (MIRA 16:9)

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut evolyutsionnoy fiziologii im. I.M.Sechenova AN SSSR.

(Cholinesterases) (Phosp#Inic acid)

ROMANOVSKIY, Yu.M.; MASTRYUKOVA, T.A.; BODROV, V.P.; POPOV, Ye.H.; KABACHNIK, M.I.

Use of high-speed computers in the analysis of mixtures of organophosphorus compounds by their infrared spectra. Izv. AN SSSR. Ser.khim. no.3:569-572 Mr '64. (MIRA 17:4)

1. Moskovskiy gosudarstvennyy universitet im. M.V.Lomonosova, Institut elementoorganicheskikh soyedineniy AN SSSR i Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

KABACHNIK, M.I., akademik

Phosphorus organic physiologically active substances; mechanism of action and rational ways of search. Vent. AN SSSR 34 no.10:
60-68 0 '64.

(MIRA 17:11)

£ 22658-65 pc-4/pr-4/ps-4/pt-10 EPF(c)/EPR/EPA(=)-2/EMP(3)/EWT(=)/T 8/0000/64/000/000/0063/0066 ACCESSION NR: AT5002111 AUTHOR: Korshak, V.V., Frunze, T.M., Kurashav, V.V., Medved, T.Ya., Polikarpov, Yu. M., Hu, Ch'ing-mei; Kabachnik, M.I. TITLE: Synthesis of certain phosphorus-containing monomers SOURCE: AN SSSR. Institut neftekhimicheskoro sinters, Sintes i svoystva monomerov (The synthesis and properties of monomers). Moscow, Izd-vo Nauka, 1964, 63-66 TOPIC TAGS: polyamide, aromatic dicarboxylic soid, aromatic diamine, organophosphorus compound, polycondensation, aliphatic diamine, phosphine derivative ABSTRACT: The authors synthesized a series of phosphorus-containing bifunctional monomers of the type of aromatic dicarboxylic acids or amines, e.g. the oxides of phenyl- and methyldi-(m-carboxyphenyl)-phosphine and of phenyl- and methyldi-(m-aminophenyl)-phosphine. The monomers were then utilized for the synthesis of polyamides by the methods of equilibrium and inter-phase polycondensation. A large number of polyamides were obtained from the phosphorus-containing dicarboxylic acids with aliphatic and aromatic diamines as well as from the phosphorus-containing diamines with certain dicarboxylic acids. ines as well as from the phosphorus-containing diamines with certain dicarboxylic acids.
All the polyamides were capable of fiber- and film-formation. In their mechanical properties, the polyamides were comparable to polymers of the type of polyheramethylenediamine

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or por position of the state of	olyhexamethylenseba stance. Gin addition,	camide. The polyam they can be used for and 5 formulas.	ides containing pr the same applicat	ions as ordinar	polyamides.	
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TEVETKOV, Ye.N.; KABACHNIK, M.I.

Methods of synthesis and analysis of dialkyl phosphites and their analogs. Reakts.i.metod.isol.org.coed. 13:267-427 %.(MIRA 17:10)

MASTRYUKOVA, T.A.; SAKHAROVA, T.B.; KABACHNIK, M.I.

Reactivity of thio acid salts of phosphorus. Part 4: Reaction of ammonium diethyl phosphate with dichlotoethene. Zhur.ob.khim. 34 no.1: 94-98 Ja '64. (MIRA 17:3)

KABACHNIK, M.I.; VOYEVODSKIY, V.V.; MASTRYUKOVA, T.A.; SOLODNIKOV, S.P.; MELENTYEVA. T.A.

Conjugation in the systems involving a tetrahedral atom. Electron paramagnetic resonance spectra of some organophosphorus compounds. Zhur. ob. khim. 34 no.10:3234-3240 0 '64.

1. Institut elementoorganicheskikh soyedineniy AN SSSR i Institut khimicheskoy fiziki AN SSSR.

BRESTKIN, A.P.; GODOVIKOV, N.N.; GODYNA, Ye.I.; KABACHNIK, M.I., akademik; MIKHEL'SON, M.Ya.; ROZENGART, Ye.V.; YAKOVILV, V.A.

Anticholinesterase properties of o-ethyl-S-alkylmethylthiophosphinates. Inhibition kinetics and structure of the active surface of cholinesterases. Dokl. AN SSSR 158 no.4:880-883 0 164.

(MIRA 17:11)

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1. Institut evolyutsionnoy fiziologii im. I.M. Sechenova AN SSSR

i Institut elementoorganicheskikh soyedineniy AN SSSR.

ARKHIPOVA, O.G.; KOCHETKOVA, T.A.; RUDOMINO, M.V.; MEDVED¹, T.Ya.; KABACHNIK, M.I., akademik

Effect of aminoalkylphosphinic acids on experimental beryllium intoxication. Dokl. AN SSSR 158 no.5:1235-1237 0 64.

(MIRA 17:10)

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1. Institut gigiyeny truda i professionalinykh zabolevaniy AMN SSSR i Institut elementoorganicheskikh soyedineniy AN SSSR.

OREKHOV, Aleksandr Pavlovich (1881-1939), akademik; KABACHNIK, N.I., akademik, otv. red.; RUDENKO, V.A., red.

[Intramolecular rearrangements; studies in the field of theoretical organic chemistry] Vmutrimolekuliarnye peregruppirovki; issledovaniia v oblasti teoreticheskoi organicheskoi khimii. Moskva, Nauka, 1965. 310 p.

(MIRA 18:9)

OREKHOV, Aleksardr Favlovich, akademik, [doccased]; [Loncounter, M.I., abademik, otv. red.; ECROVALOVA, 2.7., prof., red.; GALPERN, G.D., prof., red.; SINUKOVA, H.A., red.

[Chemistry of the alkaloids of plants of the H.S.S.B.]

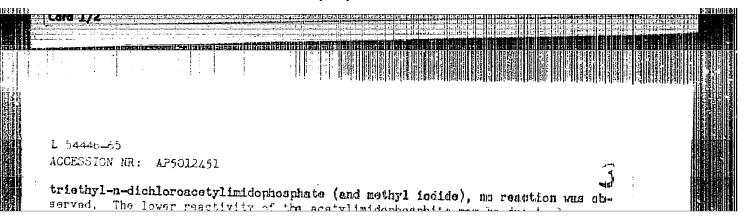
Khimita alkaloidov rastonii SSSR. Moskva, Hauka, 1905.

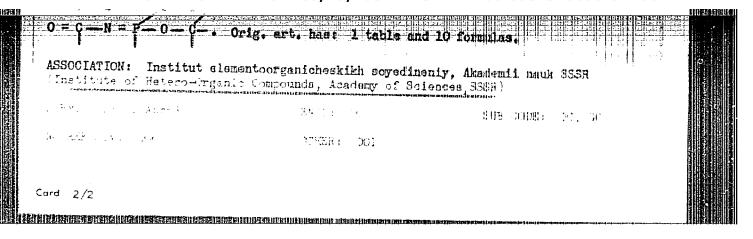
391 p. (MIRA 18:11)

AUTHORS: Kabachnik, M. I.; Gilyarov, V. A.; Chang, Chang, Chang, te description of the conjugate systems (Source: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 4. 1965, 664-669)

TOPIC TAGS: conjugate system, phosphate, alkylation

ABCTRACT: Itialkyl-u-acylimi tophosphates as conjugate systems were investigated, and the conjugate system according





L 20707-66 ENT(m)/CUP(3) -ACC NR: AP6012080	RM/CD=2 SOURCE CODE: UR/0062/65/000/005/0895/0898
AUTHOR: Senyavina, L. B.;	Sheynker, Yu. N.; Zheltova, V. N.; Dombrovskiy, A. V.; M. I.; Mastryukova, T. A.; Melent'yeva, T. A.
ORG: Institute of the Chem	SSSR)
TITIE: Infrared spectra of	f aroylmethylenetriphenylphosphorance and their salts
SOURCE: AN SSSR. Izvesti	ya. Seriya khimicheskaya, no. 5, 1965, 895-898
TOPIC TAGS: IR spectrum,	organic salt, organic phosphorous compound, electron donor,
spectra of aroylmethylenetr bonded to a phenyl ring) and from the standpoint of electrons and the arow of substituents in the arow an aromatic group to the countries of the valence corresponding aliphatic describes arow the strong of the st	intensities of the carbonyl absorption in the infrared iphenylphosphoranes (in which the carbonyl group is a their salts were measured. The data were considered tron donor and electron acceptor properties of the matic rings of the aroyl group, as well as the influence with ring on the absorption intensity. The addition of arbonyl in phosphoranes led to a decrease in the frequency as vibration of the carbonyl group in comparison with the electron acceptor, competing with the carbonyl group for electron-donor phosphorus atom. The frequency and inspector-donor phosphorus atom. The frequency and inspector-donor phosphorus atom.
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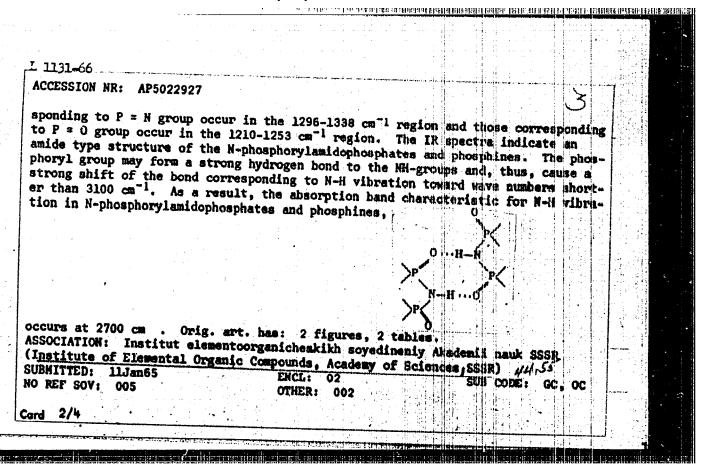
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KABACHNIK, M.I., GILYAROV, V.A., CHZHAN CHZHEN-DE

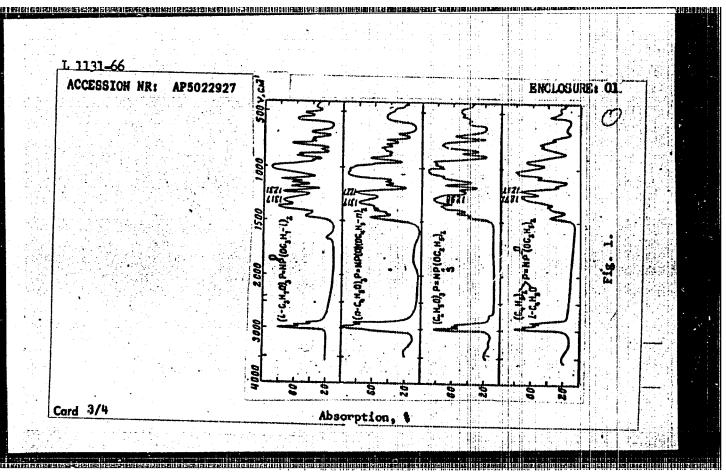
Trialkyl-N-acylimidophosphates as conjugated systems, Izv. AN S3SR. Ser. khim. no.41665-669 165. (MIRA 18:5)

1. Institut elementoorganicheskikh soyedinenty AN SSSR.

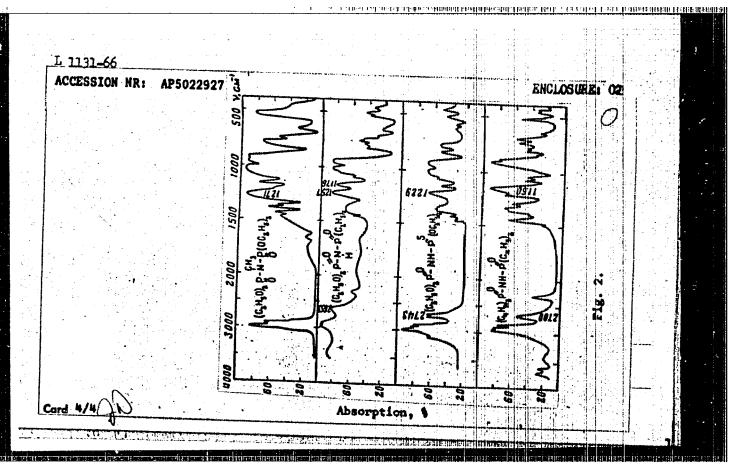
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AUTHOR: Matrosov,	المارة (۱۰: Gilyarov, ۷.	A.; Kabachnik	. M. I.	41.	(3)	
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TOPIC TAGS: amide	, imide, tautomerism,	N-phosphoryla	midenboer	ate phose	Hina	
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	AUTHOR: Molin Yu. N. losse S. T. Zever Vo. Vo. Salanton V.	
	AUTHOR: Molin, Yu. N.; loffe, S. T.; Zayev, Ye. Ye.; Solov'yeva, Ye. K.; Kugucheva,	
_	Ye. Ye.; Yoyevodskiy, V. V.; Kabachnik, M. I.	
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	TITLE, Nuclear manufactures and the state of	ļ:
· '	TITLE: Nuclear magnetic resonance study of the keto-enol equilibrium of 3-alkylacety-	
	lacetones 1 Ju. 55	
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	SOURCE: AN SSSR. Izvestiya. Seriya khimicheskaya, no. 9, 1965, 1556-1564	· ·
	TOPIC TAGS: NMR spectroscopy, ketone, NMR	
	The state of the s	
-	Andrew A	
	ABSTRACT: NMR spectra of the following compounds were studied: 3-methyl-, 3-ethyl-,	
	3-n-propyl-, 3-isobutyl-, 3-isopropyl-, and 3-sec-butylacetylacetone, and also 2-isopro-	
j	Post 2-resident A constitution of the constitu	
:	poxy-2-penten-4-one. The spectra were taken with a JNM-3 instrument (40 Mc) and some	• • .
1	were also recorded with an RS-2 spectrometer (60 Mc) at ~ 25 C, and the content of enol	
	forms was determined. Alkylacetylacetones with unbranched substituents were shown to	
	contain discard forms at applithmism with the belong that	
;	contain cis-enol forms at equilibrium with the ketone; this agrees with chemical data.	
	Compounds with branched substituents (3-isopropylacetylacetone and 3-sec-butylacety-	
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	lacetone) are almost pure ketones. The slight enolization of these substances permit the classification of the enol form in the cjs or trans series on the bas NMR method alone. "Measurements with the REI2 instrument were made at it myy institut khimii Vengerskoy Akademii nauk (Central Chemistry Institute of Hungarian Academy of Sciences), with the direct participation of Dr. L. Radich the authors express their gratitude." Orig. art, has: 5 figures and 2 tables." ASSOCIATION: Institut elementoorganicheskikh soyedinenty Adademii nauk SS of Organometallic Compounds, Academy of Sciences, SSSR); Institut khimiches gorenlya Sibirskogo otdeleniya Adademii nauk SSSR (Institute of Chemical King Combustion, Siberian Branch, Academy of Sciences, SSSR)	the to whom Is (institute) Is (institute)	
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	MEDVED',	T.Ya.; POLIKARF	POV g YUDINA, K.S.; KABA	ICHNIK, M.	10				
		Synthesis of no.9:1707-1708	$g_{\rm -ketophosphine}$ oxides. 165.	, Izv. AN	SSSR.	Ser. khii (MIRA 18	n. :9)	:	
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L 7898-66 EWT(m)/EPF(c)/EWP(j)	RM			
ACC NR: AP5024972			1/0286/65/00)/010		
AUTHORS: Kabachnik, Malevannaya, R. A.	M. I.; Tavetkov, I	e. N.; Lobano	D. 153 DOLLES	, 4.,	
ORG: none				, G	
TITLE: Method for o ethoxymethyl)-phosph	btaining methyl-di- ine oxides. Class	(aryl-oxymeth) 12, No. 17376	y1) - joir <u>methy1-d</u> <u>-</u> ען	L=(β-αlkoxy-	
SOURCE: Byulleten'	izobreteniy i tovar	nyklı znakov,	no. 16, 1965, 34		
TOPIC TAGS: alkoxy Againston, ongas ABSTRACT: This Auth either methyl-di-(ar The oxide of methyl-	nie oride, organion or Certificate pres yl=oxymethyl) or me di=(chloromethyl)=r	ents a method thyl-di-(β-a phosphine is r	for obtaining o lkoxye hoxymolhy sacted with sodi	xides of 1)-phosphines.	
or with sodium alkox		Lt BOTAGUE SO	CH GR PATGOTOR		
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KABACHNIK, M.I.; MASTRYUKOVA, T.A.; MELENT'YEVA, T.A.; DOMBROVSKIY, A.V.; SHEVGHUK, M.I.

Conjugation in the systems with a tetrahedral phosphorus atom.

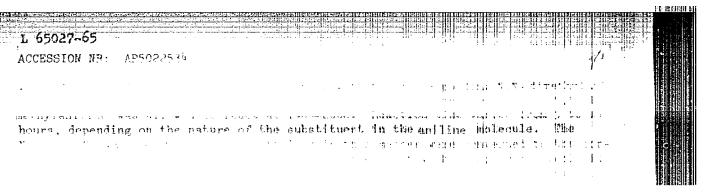
Part 1: Substituted tenzoyltriphenylphosphinomethylenes. Teoret.

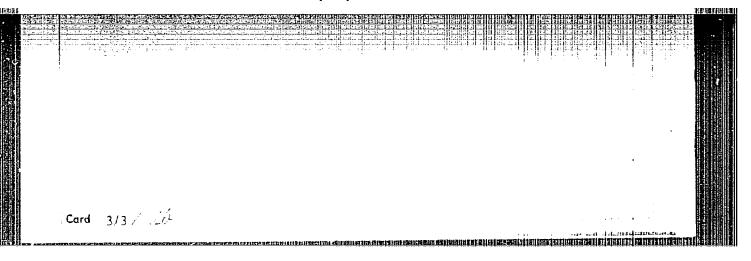
1 eksper. khim. 1 no.2:265-269 Mr-Ap '65. (MIRA 18:7)

1. Institut elementoorganicheskikh soyedineniy AN SMSR, Moskva i Chenovitskiy gosudarstvennyy universitet.

SOURCE CODE: UR/0379/65/001/006/0729/0733 EWT(m)/EWP(j) L 39000-66 ACC NR: AP6029721 AUTHOR: Tsvetkov, Ye. N.; Lobanov, D. I.; Kabachnik, M. I. ORG: Institute of Organoelemental Compounds, AN SSSR, Moscow (Institut elementoorganicheskikh soyedineniy AN SSSR) TITLE: Electron effect of the diphenylphosphino-group SOURCE: Teoreticheskaya i eksperimental'naya khimiya, v. 1, no. 6, 1965, 729-733 TOPIC TAGS: diphenyl compound, secondary amine, vinyl compound, molecular structure, phosphorus, chemical synthesis, dissociation constant, ionization, electron donor ABSTRACT: Studies of the direction in which secondary amines become associated with the vinyl compounds of trivalent phosphorus showed that vinylphosphines vinylphosphinites are not analogous to the vinyl compounds of elements having unshared pairs of electrons. This points to the electrophilic enaracter of the groupings containing a trivalent phosphorus atom. In this connection, it was of interest to investigate the electron influence of the trivalent phosphorus atom linked to an aromatic ring, and to compare it with the electron influence of nitrogen in similarly structured compounds. The authors investigated the effect of the diphenylphosphino-group and compared it with the effect of the diphenylamino-group and analogous substitutes containing pentavalont phosphorus. For this purpose, the corresponding n-substituted benzoic Card 1/2

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KABACHNIK, M.I.; BALUYEVA, G.A.; MEDVED', T.Ya.; TSVETKOV, Ye.N.; CHZHAN ZHUN-YUY [Chang Jung-ju]

Kinetics and mechanism of bromination of vinylphosphinic acid derivatives.

Kin. i kat. 6 no.2:212-220 Mr-Ap *65. (MIRA 18:7)

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L 33128-66 EWT(m)/EWP(j) RM 15550 Verton (1007 1060)	
ACC NR: AP6024164 SOURCE CODE: UR/0192/65/000/005/00590	
AUTHOR: Kabachnik, M. I.; Mastryukova, T. A.; Matrosov, Ye. I.; Fisher, B.	
ORG: Institute of Organoelemental Compounds, AN SSSR) Institut elementoorganiches- kikh soyedineniy AN SSSR)	
TITIE: Infrared spectra and structure of phosphorusmonothicacid salts	
SOURCE: Zhurnal strukturnoy khimii, v. 6, no. 5, 1965, 691-698	
TOPIC TAGS: IR spectrum, phosphoric acid, organic phosphorus compound	
ABSTRACT: The infrared spectra of salts of diethylthiophosphoric and dimethylthiophosphoric acids were studied. It was shown that the anion of ammoniacal and alkali salts of these acids have a mesomeric structure with the distribution of ionic charge between the atoms of the triad. Salts of nonalkali metals of diethylthiophosphoric acid evidently have an intracomplex structure. Depending on the nature of the metal, the distribution of the bonds in the phosphorus moiety can approximate the thiolic (Cu, Ag, Zn, and Hg salts) or the thionic (Ca, Pb, and Mn salts) type. Salts of heavy metals of dimethylthiophosphinic acid also evidently are intracomplex in character, but their thionic character is more strongly pronounced. T. K. Nazarova and H. I. Volkova took part in the experimental phase of the work. The authors thank G. B. Shaltuper for his valuable advice during discussion of the work. Orig. art. has: 3 figures and 13 formulas. [JPRS] SUB CODE: 07 / SUEM DATE: 12Feb65 / ORIG REF: 017 / OTH REF: 015	
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NEW MATERIAL PROPERTY OF THE PARTY OF THE PA	L 30039-65 EPA(s)-2/EWT(m)/EPF(c)/EPF(n)-2/EPF/EWP(j)/T Pc-4/Pr-4/Pa-4/Pt-10/Pu-4 GG/RM/Wil 8/0190/65/007/001/0053/0038 ACCESSION ER: AP5003825 S/O190/65/007/001/0053/0038 AUTHORS: Chikishev, Yu. G.; Tsetlin, B. L.; Rafikov, S. R.; Polikarpov, Yu. M.; Medved', T. Ya.; Kabachnik, M. I. TITLE: Radiation polymerization of diphenylvinylphosphine oxide in a melt SOURCE: Vysokomolekulyarnyye soyedinemiya, v. 7, no. 1, 1965, 33-38 TOPIC TAGS: diphenylvinylphosphine, polymerization, radiation polymerization/ ARKh 200 80 x ray apparatus ABSTRACT: Radiation polymerization of diphenylvinylphosphine oxide (ODFVF) obtained as described by M. I. Kabachnik, T. Ya. Medved', M. Polikarpov, and K. S. Yudina (Izv. AN SSSR, Otd. khim. n., 1961, 2029) was investigated. The polymerization studied as a function of radiation intensity (25-3500 rad/seo), radiation duration studied as a function of radiation intensity (25-3500 rad/seo), radiation, density, and solecular	, AVEN PER 1181
	and temperature (118-2000) at a pressure of 10 ⁻³ -10 ⁻⁶ mm in an x-ray apparatus and temperature (118-2000) at a pressure of 10 ⁻³ -10 ⁻⁶ mm in an x-ray apparatus, the type ARKh-200-80. The polymer specimens were tested for composition, density, the type ARKh-200-80. The polymer specimens were tested for composition, and nolecular infrared absorption spectrum, thermomechanical properties, prisocity, and nolecular weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours. The ODFVF weight after distilling away the monomer at 160-1700 for 10-60 hours.	

for the reprecipitated polymer and 16-24000 for the distilled polymer, the the mechanical compression curves for the polymer are shown in Fig. 1 on the Enclosure, and the infrared absorption curves for the polymer and monomer are shown in Fig. 2 and the infrared absorption curves for the polymer and monomer are shown in Fig. 2 and the Enclosure. It was found that the yield changed linearly with time, showing on the Enclosure. It was found that the yield changed linearly with time, showing of different radiation intensities (0-60% yield in 70 minutes for different radiation was changed also linear with radiation intensity (0-4 by weight %/min-1 as radiation was changed also linear with radiation intensity (0-4 by weight %/min-1 as radiation was changed also linear with radiation intensity and were 20% and 16000 respectively at a total independent of radiation intensity and were 20% and 16000 respectively at a total independent of radiation intensity and were 20% and 16000 respectively at a total radiation of 0.12 krad at 1300 for the distilled ODFVF. The polymerisation rate as radiation of 0.22 krad at 1300 for the distilled ODFVF. The polymerisations was significant at 6.5 Kcal/mole at temperatures of 120-2000. The kinetic relations for the polymerization process differ from all other described radiation polymerization processes based on either the radical or ion mechanism. Orig. art. has: 7 ASSOCIATION: Institut elementoorganicheskikh soyedinaniy AM SSSR (Institute of OTER) 2004 BUBLITTED: 26Feb64 BUBLITTED: 26Feb64 FOREF SOV: 009	L 30039-65			2	
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MASTRYUKOVA, T.A.; MELINT'YEVA, T.A., KABACHNIK, M.I.

Reactivity of phosphorus thio acid salts. Part 6: Alkylation and

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phosphorylation reactions of potassium diphenylthiophosphinate. Zhur. ob. khim. 35 no.7:1197-1201 J1 '65. (MIRA 18:8)

AUTHOR: Kabachnik, M. I.; Gilyarov, V. A.; Kudryavtsav, R. V. ORG: Institute of Organoelemental Compounds, AN SSSR (Institut elementacorganichoskilch soyedinenty AN SSSR) TITIE: Study of conjugation in systems with a tetrahedral phospharus atom. Phosphamide system 27 SOURCE: Zhurnal obehohey khimii, v. 35, no. 8, 1965, 1476-1481 TOPIC TAGS: tautomerism, organic phosphorus compound, methylation ABSTRACT: The reactions of 0,0-diethyl-N, N'-diphenylphosphamidine and of 0,0-diethyl-N-phenyl-N'-m-tolylphosphamidine with CS2 were investigated. The products were 0,0-diethyl-N-phenylamidothio-phosphate and aryl isothicoyanates. Formation in the second case of a mixture of phenyl isothicoyanate and m-tolyl isothicoyanate confirmed the existence of phosphamidine tautomerism. In the methylation of Na derivatives of diarylphosphamidines with MeI, a mixture of two methylation products formed when two different aryl groups were contained in the diarylphosphamidine. The ratio between the two methylation products depended on the hature of the substituents in the aryl groups. The tautomerism of diarylphos-	ACC NR	-66 _EWP(j)/EWT(m) AP6019323	SOURCE CODE	· 1万/0079/65/035/008/	1476/1461
TITIE: Study of conjugation in systems with a tetrahedral phospharus atom. Phospharide system 27 SOURCE: Zhurnal obshchey khimii, v. 35. no. 8, 1965, 1476-1481 TOPIC TAGS: tautomerism, organic phosphorus compound, methylation ABSTRACT: The reactions of 0,0-diethyl-N, N'-diphenylphosphamidine and of 0,0-diethyl-N-phenyl-N'-m-tolylphosphamidine with C52 were investigated. The products were 0,0-diethyl-N-phenylamidothio-phosphate and aryl isothiocyanates. Formation in the second case of a mixture of phenyl isothiocyanate and m-tolyl isothiocyanate confirmed the existence of phosphamidine tautomerism. In the methylation of Na derivatives of diarylphosphamidines with MeI, a mixture of two methylation products formed when two different aryl groups were contained in the diarylphosphamidine. The ratio	AUTHOR:	Kabachnik, M. I.; G	Lyarov, V. A.; Kudryavtse	Y. R. V.	27 B
Phosphamide system SOURCE: Zhurnal obshehey khimii, v. 35, no. 8, 1965, 1476-1481 TOPIC TAGS: tautomerism, organic phosphorus compound, methylation ABSTRACT: The reactions of 0,0-diethyl-N, N'-diphenylphosphamidine and of 0,0-diethyl-N-phenyl-N'-m-tulylphosphamidine with C52 were investigated. The products were 0,0-diethyl-N-phenylamidothio-phosphate and aryl isothiocyanates. Formation in the second case of a mixture of phenyl isothiocyanate and m-tulyl isothiocyanate confirmed the existence of phosphamidine tautomerism. In the methylation of Na derivatives of diarylphosphamidines with MeI, a mixture of two methylation products formed when two different aryl groups were contained in the diarylphosphamidine. The ratio	ORG: II soyedinë	nstitute of Organoeler enty AN SSSR)	mental Compounds, AN SSSR	(Institut elementoorge	nicheskikh
Phosphamide system SOURCE: Zhurnal obshehey khimii, v. 35, no. 8, 1965, 1476-1481 TOPIC TAGS: tautomerism, organic phosphorus compound, methylation ABSTRACT: The reactions of 0,0-diethyl-N, N'-diphenylphosphamidine and of 0,0-diethyl-N-phenyl-N'-m-tulylphosphamidine with C52 were investigated. The products were 0,0-diethyl-N-phenylamidothio-phosphate and aryl isothiocyanates. Formation in the second case of a mixture of phenyl isothiocyanate and m-tulyl isothiocyanate confirmed the existence of phosphamidine tautomerism. In the methylation of Na derivatives of diarylphosphamidines with MeI, a mixture of two methylation products formed when two different aryl groups were contained in the diarylphosphamidine. The ratio	TITLE:	Study of conjugation	in systems with a tetrahe	dral phosphorus atom.	
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ABSTRACT: The reactions of 0.0-diethyl-N, N'-diphenylphosphamidine and of 0.0-diethyl-N-phenyl-N'-m-tolylphosphamidine with C52 were investigated. The products were 0.0-diethyl-N-phenylamidothio-phosphate and aryl isothiocyanates. Formation in the second case of a mixture of phenyl isothiocyanate and m-tolyl isothiocyanate confirmed the existence of phosphamidine tautomerism. In the methylation of Na derivatives of diarylphosphamidines with MeI, a mixture of two methylation products formed when two different aryl groups were contained in the diarylphosphamidine. The ratio	SOURCE:	Zhurnal obshohey kh	imii, v. 35, no. 8, 1965,	1476.1481	
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TITI	E: Method of produci	ng oxides of nonsy	mmotrical tertiary	phosphines	
SOUR	CE: Zhurnal obshchey	khimii, v. 35, no	· 9, 1965, 1574-15	77	
TOPI	C TAGS: organomagnes lphosphine, alkylphos	ium compound, alum phine oxide	inum oxide, ohroma	tography, silica	gal,
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